"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

L 61178-65 EWT(1)/EWA(c)-2/EWT(m)-2/EWP(t)/EWP(b)

ACCESSION NR: AP5018210 UR/0093/65/000/006/0042/0043

621.5.07/.08:621.52

AUTHOR: Chistopolov, I. M.; Putilovskiy, V. D.

TITLE: New series of oil-steam high-vacuum pumps

SOURCE: Byulleten' tekhniko-ekonomicheskoy informatsii, no. 6, 1965, 42-43

TOPIC TAGS: pump, vacuum pump, high vacuum pump, oil steam pump/NZT 2M pump, N5T 2M pump, N8T 2M pump

ABSTRACT: The central design bureau for vacuum equipment at the Council of National Economy of the Volga District has designed a line of oil-steam high-vacuum pumps N2T-2M, N5T-2M, and N8T-2M as a replacement for the N2T, N5T and N8T pumps presently manufactured by the Kazan' machine-building plant. The new pumps are somewhat larger and weigh about 12% more than the old ones, but have five times higher capacity. They also ensure a deeper vacuum: $5 \cdot 10^{-7}$ mm Hg as compared to $5 \cdot 10^{-6}$ mm Hg of the old pumps. Orig. art. has: 1 figure and 1 table. [DV]

ASSOCIATION: none

SUBMITTED: 00 ENCL: 00 SUB CODE: IE

NO REF SOV: 000 OTHER: 000 ATD PRESS: 4081

Card 1/1

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

CHISTOP'YAN, A.F.

Grinding multiple screw threads. Stan.i instr. 31 no.8:38 Ag '60. (MIRA 13:8)

(Screw cutting)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

RYZHOV, E.V., kand.tekhn.nauk, dotsent; CHISTOP'YAN, A.F., inzh.

Gear milling with worm hobs having a positive cutting angle. (MIRA 14:8)
Vest.mash. 41 no.8:86-87 Ag '61.
(Gear cutting)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

CHISTOP"YANOV, Dmitriy Fedorovich [Chystap'ianau, D.F.]; POL'SKIY, S. [Pol'ski, S.], red.; STEPANOVA, N. [Stsiapanova, N.], tekhn.red.

[Mysterious continent] Taiamnichy matsiaryk. Minsk, Dziarzh. vyd-va BSSR, Red.navukova-tekhn.lit-ry, 1959. 136 p. (MIRA 13:12)

(Antarctic regions)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

CHISTORAZUM, A. A.

USSR/Physics - Ultrasonics in Fluids 11 Dec 51

"Velocity of Ultrasonic Waves in Certain Binary Mixtures of Organic Fluids," I. G. Mikhaylov, A. A. Chistorazum

"Dok Ak Nauk SSSR" Vol LXXXI, No 5, pp 770-782

Measure the velocity of sound (m/sec), compressibility (cm^2/dyne), and density (g/cm^3) as a function of one of the components (0-100%). Mixtures used were: $(CH_3)_2CO$-$CHCl_3$; $C_2H_5COCH_3$-H_2O. Measurements were

210T96

USSR/Physics - Ultrasonics in Fluids 11 Dec 51 (Contd)

carried out on the ultrasonic interferometer at a frequency of 2,869 cycles/sec. Cf. I. G. Mikhaylov "Propagation of Ultrasonic Waves in Fluids," 1949. Submitted by Acad A. N. Terenin 15 Oct 51.

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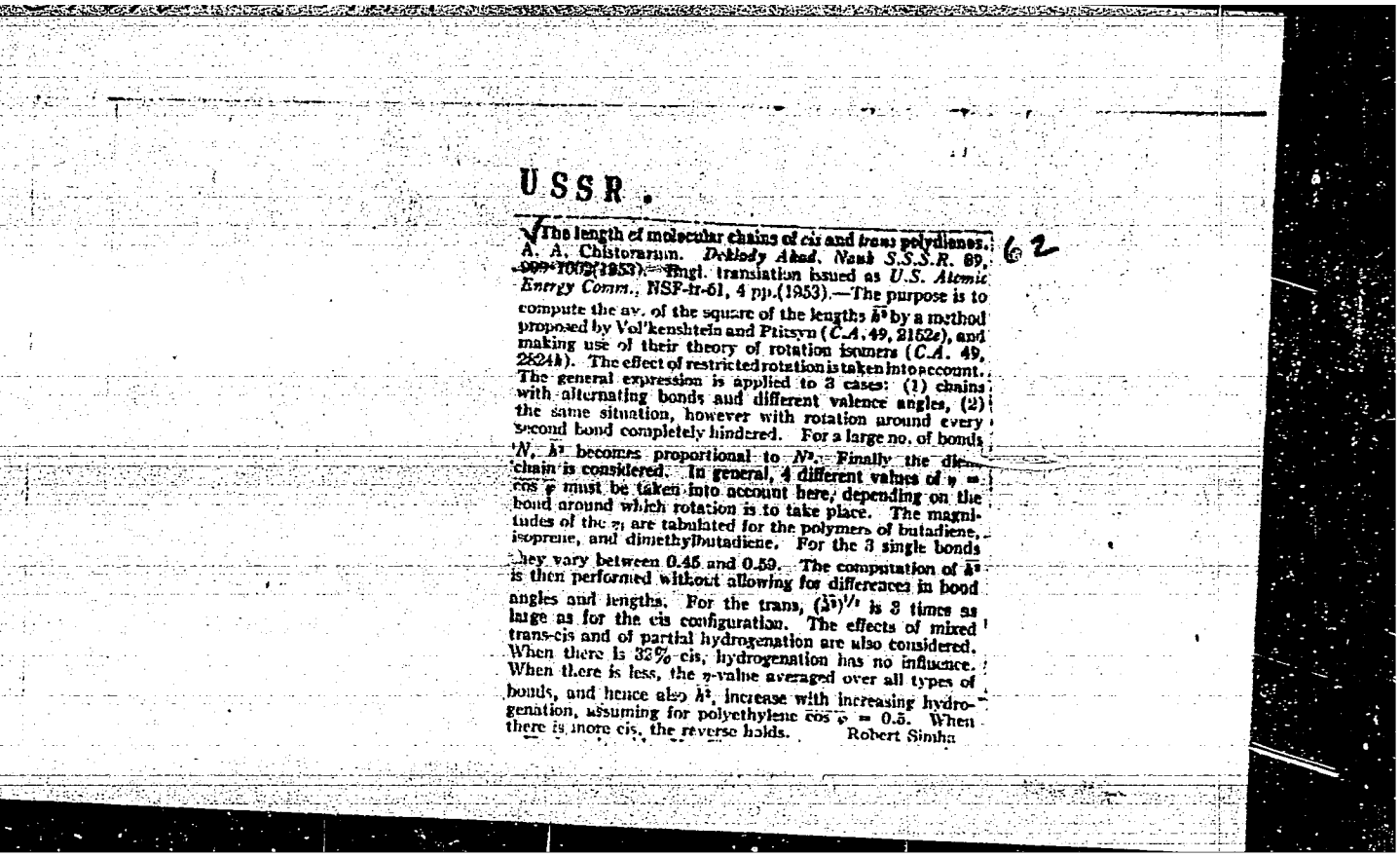
"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9



USSR.

62

The length of molecular chains of *cis* and *trans* polydienes. A. A. Chistoramun. *Doklady Akad. Nauk S.S.S.R.* 89, 909-10(1953). Engl. translation issued as *U.S. Atomic Energy Comm.*, NSF-tr-61, 4 pp.(1953).—The purpose is to compute the av. of the square of the lengths $\bar{h}^2$ by a method proposed by Vol'kenshtein and Ptitsyn (*C.A.* 49, 2162*e*), and making use of their theory of rotation isomers (*C.A.* 49, 2824*h*). The effect of restricted rotation is taken into account. The general expression is applied to 3 cases: (1) chains with alternating bonds and different valence angles, (2) the same situation, however with rotation around every second bond completely hindered. For a large no. of bonds N, $\bar{h}^2$ becomes proportional to N^2. Finally the die- chain is considered. In general, 4 different values of $\gamma = \cos\varphi$ must be taken into account here, depending on the bond around which rotation is to take place. The magnitudes of the γ_i are tabulated for the polymers of butadiene, isoprene, and dimethylbutadiene. For the 3 single bonds they vary between 0.45 and 0.59. The computation of $\bar{h}^2$ is then performed without allowing for differences in bond angles and lengths. For the trans, $(\bar{h}^2)^{1/2}$ is 3 times as large as for the cis configuration. The effects of mixed trans-cis and of partial hydrogenation are also considered. When there is 33% cis, hydrogenation has no influence. When there is less, the γ-value averaged over all types of bonds, and hence also $\bar{h}^2$, increase with increasing hydrogenation, assuming for polyethylene $\cos\varphi = 0.5$. When there is more cis, the reverse holds. Robert Simha

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

[illegible] S. A.

ALEKSANDROV, S.N.; BUCHEL', V.I.; CHISTORAZUM. S.A.

Infrared spectrometer for analytic purposes. Trudy Inst."Khimgaz" no.6:72-100 '51. (MLRA 7:8)

(Spectrometer) (Spectrum, Infrared)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

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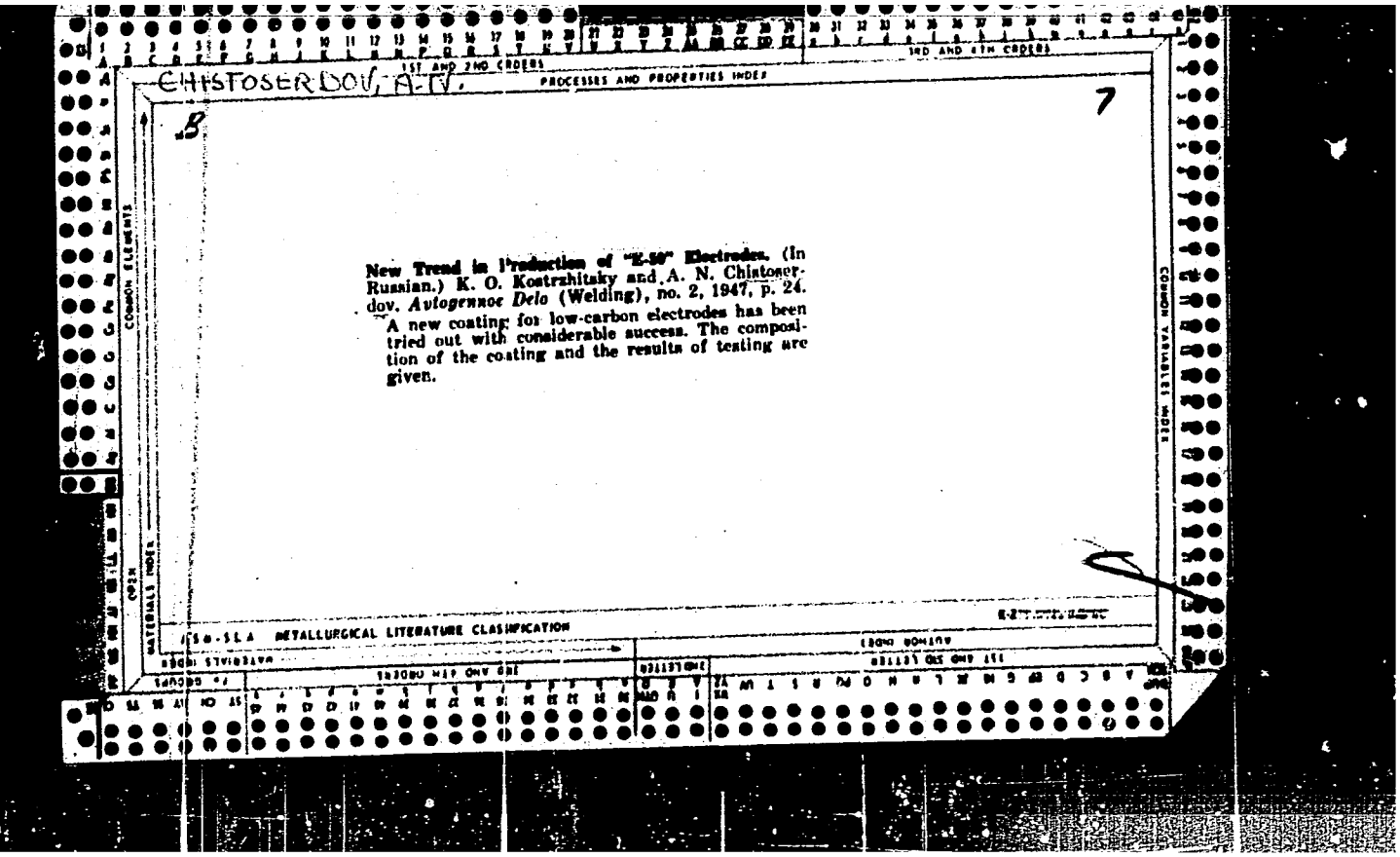

CHISTOSERDOV, A.N.

PROCESSES AND PROPERTIES INDEX

7

B

New Trend in Production of "E-50" Electrodes. (In Russian.) K. O. Kostrzhitsky and A. N. Chistoserdov. *Avtogennoe Delo* (Welding), no. 2, 1947, p. 24.

A new coating for low-carbon electrodes has been tried out with considerable success. The composition of the coating and the results of testing are given.

USA-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

CHISTOSERDOV, A. N.

USSR/Engineering - Welding Mar 51

"Rapid Methods for Manual Welding of Stays, Bushings and Caps in an "L" Locomotive Boiler," A. V. Shadrin, Engr, Laureate of Stalin Prize, A. N. Chistoserdov, Engr, Kolomna Locomotive-Bldg Plant

"Avtogen Delo" No 3, pp 25-27

Discusses measures experimentally developed for decreasing welding time. Electrodes with various-type coatings were used instead of those with chalk coating. As result, time of welding stays of firebox was decreased by 83

185T24

USSR/Engineering - Welding (Contd) Mar 51

hr for each boiler. Wide application of mechanized turning devices is another essential measure.

185T24

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

CHISTOSERDOV A N

137-58-3-5290

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 3, p 118 (USSR)

AUTHORS: Chistoserdov, A. N., Entin, Ya. B.

TITLE: Manufacture of Metallic Electrodes of the E42 and E42A Type (Izgotovleniye metallicheskikh elektrodov tipa E42 i E42A)

PERIODICAL: Mashinostroitel', 1957, Nr 6, pp 47-48

ABSTRACT: An account of the Kolomna engine-driven-locomotive plant's experience of replacing ferrotitanium in electrode coatings by the KPZ-32, KPZ-32A, and UONI-13/45 coatings containing powdered Ti (PT). Because of smaller amounts of PT contained in the coating (as compared with ferrotitanium), a reduced TiO_2 content, and decreased cost of manufacturing the electrodes, the employment of PT afford economical advantages. The composition of coatings containing PT and ferrotitanium is shown. Recommendations are made regarding the thickness of the coating. Electrodes covered with a coating containing PT possess good technological qualities and impart all required mechanical properties to the metal of the weld.

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

CHISTOSERDOV, A.S.

Calculating water discharge from pits in loose and fractured rocks. Mat. po geol. i pol. iskop. IUzh. Urala no.2:130-135 '60. (MIRA 14:3)

(Water, Underground)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

AZARKOVICH, A.Ye., inzh.; CHISTOSERDOV, B.I., inzh.; DAVYDOV, S.A., inzh.

Effect of spacing between boreholes on the results of blasting.
Vzryv. delo no.45:63-75 '60. (MIRA 14:1)
(Blasting)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

MOLOCHNIKOV, I.M.; CHISTOSERDOV, B.P.; KOKOVA, V.A.; KORALEVA, M.P.

Effect of methods employed in the production of hydrogen on the technical and economic indices of petrochemical and petroleum refining production. Trudy BashNII NP no.7: 175-177 '64. (MIRA 17:9)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

CHISTOSERDOV, B.P.; ZENINSKIY, A.M.; KOROLEVA, M.P.; NURMUKHAMETOVA, I.Z.

Methodology for determining labor productivity in the petroleum industry. Khim. i tekh. topl. i masel 10 no.10:34-38 O '65. (MIRA 18:10)

1. Bashkirskiy nauchno-issledovatel'skiy institut po pererabotke nefti.

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

CHISTOSERDOV, D. P.

Peredvizhnye Kinoproektor Dlia 35-mm Plenki (Motion Picture Camera), 213 p., Moscow, 1950.

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

CHISTOSERDOV, Dmitriy Petrovich; PANFILOV, N.D., red.; CHICHERIN, A.N., tekhn.red.

[Operation of portable 35-mm. motion-picture projectors] Ekspluatatsiia peredvizhnykh 35-mm kinoproektorov. Moskva, Gos. izd-vo "Iskusstvo, 1958. 138 p. (MIRA 12:4)
(Motion-picture projectors)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

ACCESSION NR: AT4019306 S/0000/63/003/001/0150/0151

AUTHOR: Borgman, V. A.; Chistoserdov, G.

TITLE: Some properties of the latent image in photosensitive glasses

SOURCE: Simpozium po stekloobraznomu sostoyaniyu. Leningrad, 1962. Stekloobraznoye sostoyaniye, vy*p 1: Kataliziirovannaya kristallizatsiya stekla (Vitreous state, no. 1: Catalyzing crystallization of glass). Trudy* simpoziuma, v. 3, no. 1. Moscow, Izd-vo AN SSSR, 1963, 150-151

TOPIC TAGS: glass, photosensitive glass, latent image, irradiation, ultraviolet light, photosensitivity, ultraviolet irradiation, optical density

ABSTRACT: The effect of ultraviolet light on photosensitive glass (0.4 mm thick sample) was investigated to determine the dependence on temperature and time of irradiation. The relationship between the optical density inthe maximum region of absorption of the latent image centers and the irradiation time at 20 and 180C is shown in Fig. 1 of the Enclosure. The relationship between the value $\ln \frac{\Delta Dm}{\Delta t}$ and irradiation time was investigated at 20 and 180C. The experimental curves showed that at 20C $\alpha N=0.1$ and $n_0=1.17 \times 10^{-16}$, at

Card 1/3

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

ACCESSION NR: AT4019306

180C, at N=0.17 and an $n_0=2.6 \times 10^{-6}$ for the given thickness of the sample and under the given irradiation conditions, inasmuch as N (the concentration of free electrons) depends on the intensity of radiation (n_0 = free traps). The investigations with other samples give a scattering of the an$_0$ value within two orders, because the properties of glass samples differ somewhat in homogeneity. Undoubtedly the N value varies little over the temperature range investigated at the same intensity of radiation, while the concentration of trap n_0 increases with temperature 9 to 10 times as much. This explains the increase in photosensitivity during heating over temperature ranges at which a latent image is formed. After heating and cooling of the glass n_0 and the sensitivity increase with respect to the initial value. Hence the growth of n_0 must be attributed to the reversible changes in the glass structure. Orig. art. has: 4 formulas and 2 figures.

ASSOCIATION: None

SUBMITTED: 17May63 DATE ACQ: 21Nov63 ENCL: 01

SUB CODE: MT,OP NO REF SOV: 002 OTHER: 000

Card 2/3

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

ACCESSION NR: AT4013806

ENCLOSURE: 01

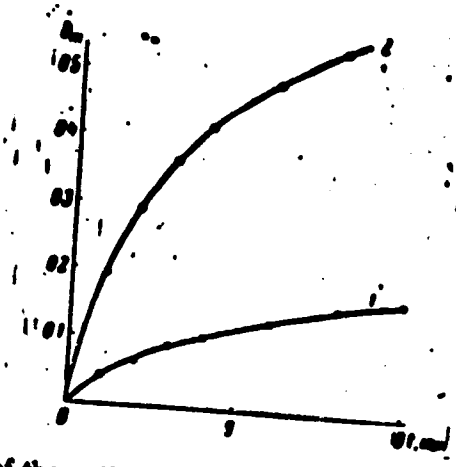

Fig. 1 - Dependence of the optical density in the maximum absorption band of latent image centers on the irradiation time.
1 - irradiation at 20C 2 - at 160C

Card 3/3

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

L 58892-65 EWA(h)/EWT(1) Pu

ACCESSION NR: AP5019007 UR/0286/65/000/012/0034/0034
621.317.333.82

AUTHOR: Chistoserdov, M. G.

TITLE: A method for producing intermittent voltage. Class 21, No. 171912

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 12, 1965, 34

TOPIC TAGS: pulse generator, intermittent voltage

ABSTRACT: This Author's Certificate introduces a method for producing intermittent voltage by using a high voltage transformer with the primary connected to the inductance of a tank circuit with a precharged capacitor. Distortion in the voltage pulses is reduced by connecting the transformer to the inductance at the moment when capacitor discharge begins and the voltage is close to zero in step with a device which switches the capacitor to discharge.

ASSOCIATION: none

SUBMITTED: 29Feb64 ENCL: 00 SUB CODE: EC

NO REF SOV: 000 OTHER: 000

Card 1/1

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

CHISTOSERDOV, P.S.

PHASE I BOOK EXPLOITATION SOV/4754

Vsesoyuznoye soveshchaniye po gruppovym tekhnologicheskim protsessam v mashinostroyenii i priborostroyenii. 1st, Leningrad, 1959

Gruppovaya tekhnologiya v mashinostroyenii i priborostroyenii (Group-Processing Methods in the Machine and Instrument Industries) Moscow, Mashgiz, 1960. 378 p. Errata slip inserted. 7,000 copies printed.

Ed. (Title page): S.P. Mitrofanov, Lenin Prize Winner, Candidate of Technical Sciences; Eds.: A.S. Azarov, Candidate of Technical Sciences, N.G. Gutner, Engineer, P.V. Kamnev, Candidate of Technical Sciences, A.K. Kutay, Candidate of Technical Sciences, R.A. Reznikov, Engineer, and G.N. Shalgin, Candidate of Economic Sciences; Managing Ed. for Literature on Machine-Building Technology (Leningrad Department, Mashgiz): Ye.P. Naumov, Engineer; Ed. of Publishing House: N.Z. Simonovskiy; Tech. Ed.: O.V. Speranskaya.

PURPOSE: This collection of articles is intended for technical personnel in machine plants, designing organizations, and scientific-research institutes. It may also be useful to skilled workers.

Card 1/7

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

Group-Processing (Cont.) SOV/4754

COVERAGE: The collection consists of papers presented at the 1st All-Union Conference on Group Processing in the Machine and Instrument Industries, held November 24-28, 1959 in Leningrad. The conference was called by scientific and technical societies of the machine and instrument industry, GNTK RSFSR, and Lensovnarkhoz. The articles are based on the experience of industry in introducing the grouping principle in processing. They discuss basic trends in development, and group machining as the basis of mechanized continuous production. The designing of automatic production lines, construction of accessories, and modernization and specialization of equipment are discussed. Problems dealing with the introduction of group-machining methods into processing on various machine tools and into production of blanks (casting, pressworking, pressing of plastics) are considered. Planning, standardization, and methods for calculating the economic effectiveness of group processing are also treated. No personalities are mentioned. There are no references.

TABLE OF CONTENTS:

From the Publisher 3

Card 2/7

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

PART I. PROCESSING IN BLANK-MAKING DEPARTMENTS

Mednikov, Z.G. [Leningrad]. Application of the Group Machining Method in Die Forming of Molten Metal and in Die Casting 5

Kamnev, P.V. [Leningrad]. Group Method in the Manufacture of Forgings 22

Chistoserdov, P.S. [Mogilev]. Cold Forging in Group Dies With Exchangeable Forming Parts 42

Vostrodovskiy, A.V. [Leningrad]. Group Method of Processing Parts by Forging (From the Work Experience of the "Vulkan" Plant) 58

Platov, A.V. [Leningrad]. Basic Principles of Introduction of Group Processing in the Production of Articles of Thermosetting Plastics 67

PART II. MECHANICAL MACHINING AND ASSEMBLY PROCESSES

Bachelyuk, I.G. [Kiyev]. Introduction of the Group-Machining Method for Machining Parts on Various Metal-Cutting Machine Tools (From the Experience of the Kiyev "Arsenal" Plant) 87

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

CHISTOSERDOV, Pavel Sergeyevich; BARANOVSKIY, M., red.; VANCHUK,L., red.

[Standardization of technological processes and the multiple machining of parts] Tipizatsiia tekhnologicheskikh protsessov i gruppovye metody obrabotki detalei. Minsk, Belarus', 1964. 189 p. (MIRA 18:4)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

CHISTOSERDOV, P.S.; NEUMOIN, A.I.

Multiple cold stamping with universal dies. Mashinostroitel' no.11:24-26 '65. (MIRA 18:11)

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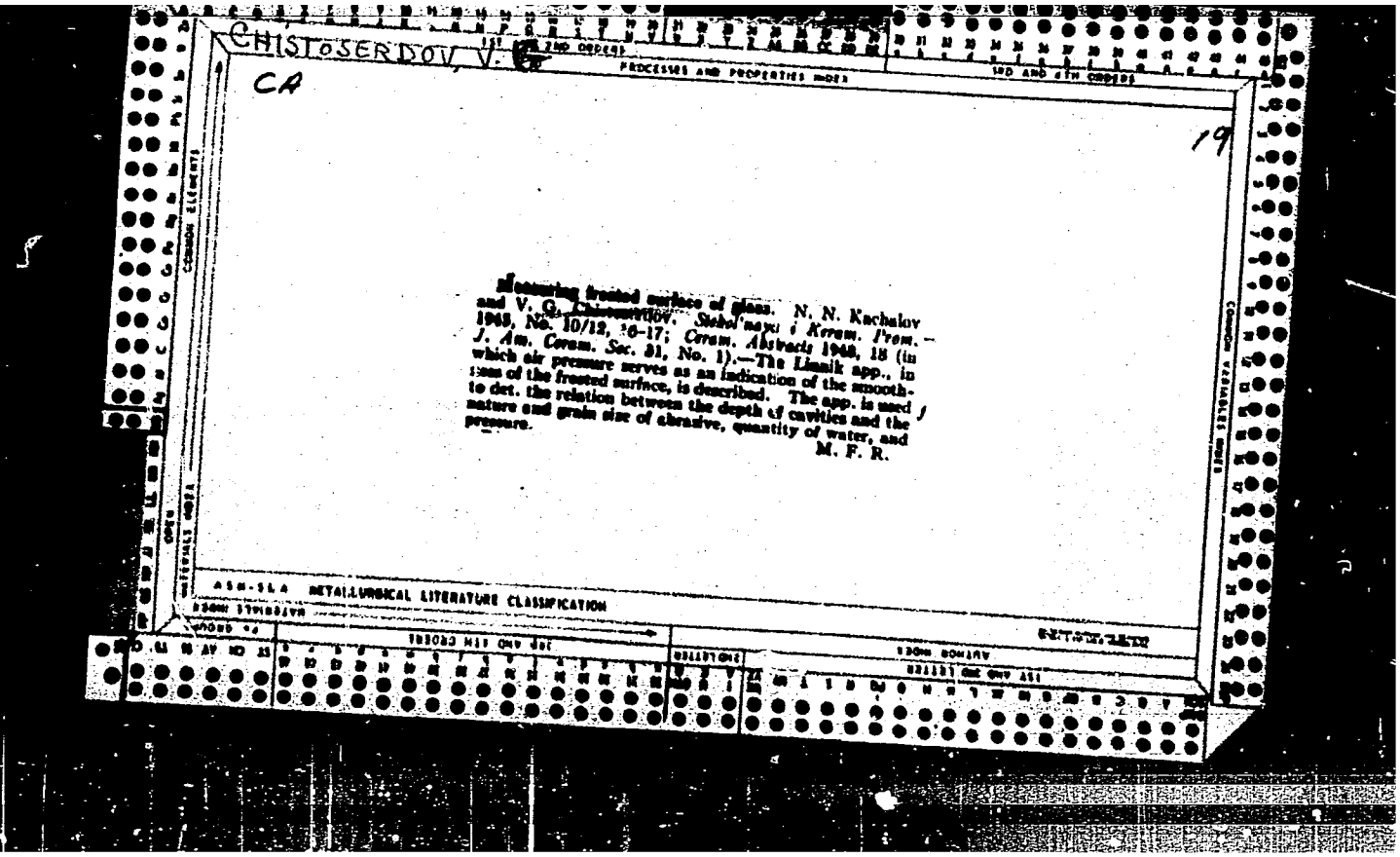

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

24660

15.2120

S/076/61/035/006/013/013
B127/B203

AUTHORS: Borgman, V. A., Petrov, V. M., and Chistoserdov, V. G.

TITLE: Temperature dependence of the photochemical process in light-sensitive glass

PERIODICAL: Zhurnal fizicheskoy khimii, v. 35, no. 6, 1961, 1383-1385

TEXT: The authors studied the properties of light-sensitive glass during irradiation with ultraviolet light from a ПРК-7 (PRK-7) irradiation lamp at temperatures of -180°C to 550°C. The composition of the glass in % was as follows: 76 SiO_2; 8Al_2O_3; 12Li_2O, 4K_2O; 0.03 CeO_2; 0.02 Ag. The Ce^{+++} ion served as photoelectron emitter excited by light of the wavelength 300-350 mμ. When working in the heat, the Ag^+ was reduced by the photoelectrons, and was present as colloidal Ag. Glass irradiated at 20°C changed color when heated to 450°C. At 530-550°C, the color intensified. Glass irradiated at temperatures above 220°C started changing its color during irradiation, the color intensification showed the increasing concentration of colloidal silver. Slightly above the deformation point (550°C), the sensitiveness to light stopped. The necessity of "developing"

Card 1/3

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

glass irradiated below 220°C by heating indicates that below 220°C there are capture centers catching the photoelectrons and permitting a reduction of the metal only by the release of electrons on heating. If the glass is exposed to ultraviolet light at less than 500°C, it becomes yellow due to the silver content. At 500-515°C, it was orange, at 515-530°C, mahogany, at 530-540°C, green, and at 540-550°C, brown. The specimen was placed at 17.5 cm before the lamp, and heated to 535°C: 5 min irradiation, yellow, 10 min, dark yellow, 13 min, orange, 17 min, mahogany, 25 min, green. At a temperature below 530°C, the colloidal Ag particles started growing at different rates. The thickness of the colored layer was varied at varying temperatures: at 20°C, it was 7 mm, at 510-535°C, 1 mm, and at 540°C, 0.1 mm. If the 0.02 % Ag content was substituted by a 0.01 % Au content, other rules were governing. The reason is that Au atoms are less mobile than Ag atoms, and therefore the colloidal particles are formed more slowly. The temperature range of the photosensitivity changes intensively with a change in the glass composition. There are 2 figures and 3 references: 2 Soviet-bloc.

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

24660

Temperature dependence of the... S/076/61/035/006/013/013
B127/B203

ASSOCIATION: Nauchno-issledovatel'skaya laboratoriya Leningradskogo zavoda khudozhestvennogo stekla (Scientific Research Laboratory of the Leningrad Plant for Artistic Glass)

SUBMITTED: November 18, 1960

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Card 3/3

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

BORGMAN, V.A.; CHISTOSERDOV, V.G.

Absorption bands of latent image centers in photosensitive glass. Opt. i spektr. 12 no.1:140-141 Ja '62. (MIRA 15:2)
(Glass—Spectra)
(Color centers)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

41536

S/051/62/013/003/008/012
E202/E435

AUTHORS: Borgman, V.A., Chistoserdov, V.G.

TITLE: Colouring of photosensitive glasses by X-rays

PERIODICAL: Optika i spektroskopiya, v.13, no.3, 1962, 421-424

TEXT: The authors studied absorption bands formed as a result of X-ray irradiation of photosensitive glasses and the subsequent changes in these bands caused by heat treatment. Glass no.1 contained SiO_2 - 76, Al_2O_3 - 8, Li_2O - 12, K_2O - 4 wt.%. Glass no.2 had in addition 0.03% CeO_2 and 0.01% Ag. Glass no.3 - 0.02% Ag, Glass no.4 - 0.03% CeO_2 and 0.01% Au. Glass no.5 - 0.01% Au. A tungsten target and a 185 kV РУМ-3 (RUM-3) X-ray unit was used for irradiation. High temperature treatment was carried out in a special oven provided for irradiation with an aluminium foil window. Optical density curves with respect to wavelength were plotted using the СФ-4 (SF-4) spectrometer followed by plotting the differential curves for each sample before and after treatment. After irradiation, glass no.1 gave an absorption band with a maximum at 600 to 620 mμ and a group of strongly overlapping bands with a maximum at 300 mμ. All the remaining glasses with the photosensitive additives showed quite

Card 1/2

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different spectra. Glasses no.3 and 5 had only one band I, whilse no.2 and 4 had also band II overlapping band I. Heating up to 170°C rendered band I colourless and introduced band II into no.3 and 5. These and other results of earlier work employing ultraviolet irradiation showed that the effect of X-rays on the photosensitive glasses gives rise to entirely different processes from those due to ultraviolet irradiation. It was also found that cerium additives have substantially no effect on the photosensitivity to X-rays. Properties of the latent image formation depended on the metal of the photoactive additive, i.e. Ag or Au, the latter ions taking part in the formation of latent image centres. There are 3 figures.

SUBMITTED: July 20, 1961

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

CHISTOSERDOV, V.G.

Increasing the operative efficiency of abrasive wheels for the diamond cut glass finish. Stek.i ker. 19 no.9:8-11 S '62. (MIRA 15:9)

(Grinding wheels)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

BORGMAN, V. A.; GURKOVSKIY, Ye. V.; CHISTOSERDOV, V. G.

2.

"The effect of glass structure variations on photosensitivity."

report submitted for 4th All-Union Conf on Structure of Glass, Leningrad, 16-21 Mar 64.

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

CHISTOSERDOV, V. G.; KOZLOVA, M. A.

"Peculiarities of crystallization of glass in the state of deep supercooling."

report submitted for 4th All-Union Conf on Structure of Glass, Leningrad, 16-21 Mar 64.

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

ACCESSION NR: AT4019304 S/0000/63/003/001/0141/0145

AUTHOR: Pavlova, G. A.; Skornyakov, M. M.; Chistoserdov, V. G.

TITLE: An investigation of the electrical properties of some glasses and glassy-crystalline materials based on the lithium oxide-aluminum oxide-silicon dioxide system

SOURCE: Simpozium po stekloobraznomu sostoyaniyu. Leningrad, 1962. Stekloobraznoye sostoyaniye, vy*p. 1: Katalizirovannaya kristallizatsiya stekla (Vitreous state, no. 1: Catalyzing crystallization of glass). Trudy* simpoziuma, v. 3, no. 1. Moscow, Izd-vo AN SSSR, 1963, 141-145

TOPIC TAGS: glass, glassy-crystalline material, lithium glass, lithium aluminosilicate, photosensitivity, insulation, dielectric loss, electrical property

ABSTRACT: The electrical insulating properties of glassy-crystalline materials obtained from photosensitive glasses of the Li_2O-Al_2O_3-SiO_2 system can be increased considerably by decreasing the Al_2O_3 concentration and replacing SiO_2 with BaO, SrO, and CaO. After crystallization, the dielectric loss of lithium aluminosilicate glasses can decrease, increase, or remain the same as in the original glass, if the lithium ions are contained in the composition of the crystalline phase. The specific resistance of the crystalline material, however, is always

Card 1/2

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ACCESSION NR: AT4019304

higher than that of the glass. On the basis of these data it is assumed that the change in the dielectric loss of glass of the Li_2O-Al_2O_3-SiO_2 system resulting from crystallization depends not only on the composition, but also on the structure of the crystalline phase formed, and in general, on the glassy-crystalline phase. The insulating properties of the photosensitive materials are not increased by increasing the baking temperature of silver paste electrodes from 500 to 800C. After baking the silver paste at 850C, when the rate of diffusion of silver into the material is the highest, there is a great decrease in $\tan\delta$, and an appreciable decrease in ε at 10^6 c.p.s. The experimental data are tabulated giving log P, activation energy E, $\tan\delta$, and ε as a function of composition and temperature. Orig. art. has: 2 tables and 3 figures.

ASSOCIATION: none

SUBMITTED: 17May63 DATE ACQ: 21Nov63 ENCL: 00

SUB CODE: MT, EM NO REF SOV: 004 OTHER: 000

Card 2/2

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

ACCESSION NR: AT4019305 S/0000/63/003/001/0145/0148

AUTHOR: Chistoserdov, V. G.; Novgorodtseva, V. I.

TITLE: Microcrystalline materials with zero, positive, and negative coefficients of thermal expansion

SOURCE: Simpozium po stekloobraznomu sostoyaniyu. Leningrad, 1962. Stekloobraznoye sostoyaniye, vy*p. 1: Katalizirovannaya kristallizatsiya stekla (Vitreous state, no. 1: Catalyzing crystallization of glass). Trudy* simpoziuma, v. 3, no. 1. Moscow, Izd-vo AN SSSR. 1963, 145-148, bottom half of insert facing p. 162

TOPIC TAGS: glass, glass composition, glass crystallization, microcrystallinity, lithium aluminosilicate, thermal expansion, glassy-crystalline state

ABSTRACT: Glass compositions in the center of the spodumene-eucryptite zone were investigated. In this lithium-aluminosilicate system, strong nonporous, glassy-crystalline materials were obtained with coefficients of linear, thermal expansion ranging from +15 to -20 x 10^{-7}/degree, including zero values. From the same glass, microcrystalline material could be obtained by different thermal treatments with a given coefficient of thermal expansion. This coefficient is substantially determined by the β-eucryptite or spodumene content in the material.

Card 1/2

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ACCESSION NR: AT4019305

In glassy-crystalline materials obtained by a low-temperature, thermal treatment, β-eucryptite was the principal crystalline phase. An increase in temperature of thermal treatment gave rise to the appearance of a large amount of spodumene and other crystalline phases, which produced a macrostructure. The variation in the phase composition of the materials was accompanied by marked changes in its electrical properties, and this offered a great possibility for more thoroughly studying the questions connected with the structure of glass and glassy-crystalline materials. The linear thermal expansion coefficients for some synthetic lithium minerals are tabulated along with X-ray investigation data. Orig. art. has: 3 figures and 2 tables.

ASSOCIATION: none

SUBMITTED: 17May63 DATE ACQ: 21Nov63 ENCL: 00

SUB CODE: MT NO REF SOV: 000 OTHER: 005

Card 2/2

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

BORGMAN, V.A.; CHISTOSERDOV, V.G.

Certain properties of a latent image in photosensitive glasses.
Stekloobr. sost. no.1:150-151 '63. (MIRA 17:10)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

ACCESSION NR: AT4019309 S/0000/63/003/001/0159/0161

AUTHOR: Shmeleva, N. A.; Chistosurdov, V. G.; Gerasimova, A. I.

TITLE: The effect of dilute hydrofluoric acid solutions on lithium silicates

SOURCE: Simpozium po stekloobraznomu sostoyaniyu. Leningrad, 1962. Stekloobraznoye sostoyaniye, vy*p. 1: Katalizirovannaya kristallizatsiya stekla (Vitreous state, no. 1: Catalyzing crystallization of glass). Trudy* simpoziuma, v. 3, no. 1. Moscow, Izd-vo AN SSSR. 1963. 159-161, insert facing page 163

TOPIC TAGS: glass, photosensitivity, ultraviolet light, crystalline phase glass, crystallization, photosensitive glass, hydrofluoric acid, silicate, lithium silicate

ABSTRACT: The solubility of some photosensitive glass in hydrofluoric acid depends on previous exposure to ultraviolet light. In view of the practical importance of this problem, the crystalline phases which result in increased solubility in hydrofluoric acid were studied.

Card 1/2

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

ACCESSION NR: AT4019310 S/0000/63/003/001/0161/0164

AUTHOR: Chistoserdov, V. G.; Shmeleva, N. A.; Serdyuk, A. M.

TITLE: A study of the crystallization products in the magnesium aluminosilicate system with additions of titanium dioxide

SOURCE: Simpozium po stekloobraznomu sostoyaniyu. Leningrad, 1962. Stekloobraznoye sostoyaniye, vyp. 1: Katalizirovannaya kristallizatsiya stekla (Vitreous state, no. 1: Catalyzing crystallization of glass). Trudy* simpoziuma, v. 3, no. 1. Moscow, Izd-vo AN SSSR, 1963, 161-164

TOPIC TAGS: glass, glass crystallization, magnesium aluminosilicate, cordierite, geikielite, clinoenstatite, titanium dioxide, catalyzed crystallization

ABSTRACT: The crystallization products of glasses of the $MgO-Al_2O_3-SiO_2-TiO_2$ system and the effect of TiO_2 addition were studied. The dynamics of the formation of crystalline phases were investigated by high-temperature x-ray analysis. The test sample was glass 59 with the composition 61.4% SiO_2, 18.3% Al_2O_3, and 20.3% NaO plus 0.25% silica. Ionization curves were plotted for noncrystalline, crystalline, and quenched glasses at different temperatures. Both ionization curves and thermograms were also recorded for glass 59 containing 10% TiO_2. It was found

Card 1/2

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

ACCESSION NR: AT4019310

that during the crystallization of titanium glasses, α-cordierite is formed through the μ-form (metastable, insufficiently identified compound with an average refractive index varying from 1.540 to 1.610). In glasses of microcrystalline structure containing 10-18% TiO_2, geikielite and sometimes clinoenstatite are formed together with α-cordierite. All glasses with 2-18% TiO_2 crystallized at 1100C showed α-cordierite as the principal phase, while glass with 10% or more TiO_2 showed geikielite ($MgTiO_3$). The phase composition and the microstructure of the resulting ceramics determine their physical-chemical properties; α-cordierite, with a low coefficient of expansion (about 10 x 10^{-7}/degree), imparts high thermal stability, but the cellular-granular structure limits the possibility of high strength. Orig. art. has: 3 figures.

ASSOCIATION: none

SUBMITTED: 17May63 DATE ACQ: 21Nov63 ENCL: 00

SUB CODE: MT NO REF SOV: 000 OTHER: 001

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APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

PAVLOVA, G.A.; CHISTOSERDOV, V.G.

Investigating the electric properties of certain alkali-free crystalline glass materials depending on their composition and conditions of heat treatment. Steklobr. sost. no.1:184-190 '63.

(MIRA 17:10)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

L 11848-66 EWT(m)/EWP(e)/EWP(b) WH/GS
ACC NR: AT6000508 SOURCE CODE: UR/0000/65/000/000/0377/0380

AUTHOR: Borgman, V. A.; Gurkovskiy, Ye. V.; Chistoserdov, V. G.

ORG: None

TITLE: The effect of changes in glass structure on light sensitivity

SOURCE: Vsesoyuznoye soveshchaniye po stekloobraznomu sostoyaniyu. 4th, Leningrad, 1964. Stekloobraznoye sostoyaniye (Vitreous state); trudy soveshchaniya, Leningrad, Izd-vo Nauka, 1965, 377-380

TOPIC TAGS: photosensitivity, glass property, optic property, glass

ABSTRACT: The development temperature t_d of light sensitive glasses decreases with an increase in irradiation temperature tirr (V. A. Borgman, V. M. Petrov, V. G. Chistoserdov, ZhFKh, 35, No. 6, 1383, 1961) and seems to depend on the concentration of centers of the latent image. The present investigation studied these relationships on the glass types shown in Table 1. The results are summarized in Figures 1 and 2. The authors provide a theoretical explanation of the results by assuming that the neutral silver atoms have a large mobility similar to the vapor phase which at appropriate concentration and temperature

Card 1/5

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

L 11848-66

ACC NR: AT6000508

Table 1. Glass Composition in mol %

Oxide	Glass No									
	1	2	3	4	5	6	7	8	9	10
SiO_2	71	71	71	70	70	70.5	70.85	70.85	79.5	69.1
Al_2O_3	1.45	1.45	1.45	1.2	1.2	1.2	4.4	4.4	—	—
Li_2O	—	—	—	—	—	—	—	22.5	—	—
Na_2O	8.4	8.4	8.4	13.9	13.9	11.5	22.5	—	11.5	21.7
K_2O	4.6	4.6	4.6	3.9	3.9	4.8	2.25	2.25	—	—
MgO	—	—	—	—	—	12	—	—	—	—
CaO	2.6	2.6	2.6	11	11	—	—	—	9.2	9.2
BaO	12	12	12	—	—	—	—	—	—	—
CeO_2	0.011	0.011	—	0.011	0.011	0.011	0.011	0.011	0.02	0.02
Ag	0.027	—	—	—	0.027	—	0.015	0.015	—	—
Au	—	0.0025	0.0025	0.0025	—	0.0025	—	—	0.006	0.006

Card 2/5

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L 11848-66
ACC NR: AT6000508

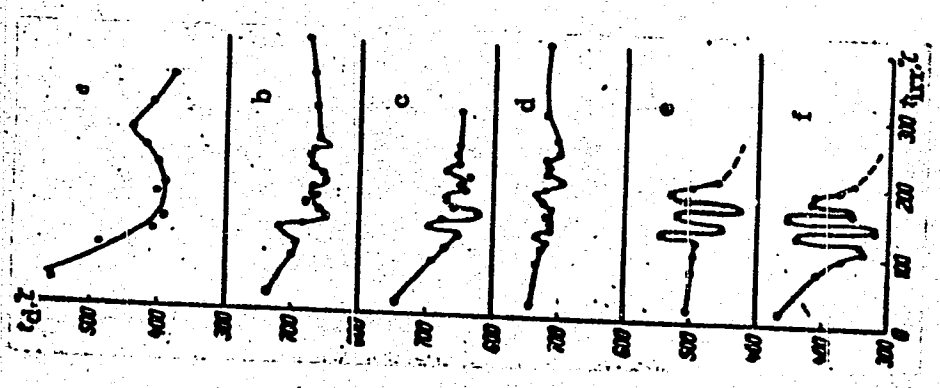

Fig. 1. The dependence of t_d on t_{irr} for glasses:
a - No 1; b - No 2; c - No 4; d - No 6; e - No 9, f - No 10.

Card 3/5

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L 11848-66
ACC NR: AT6000508

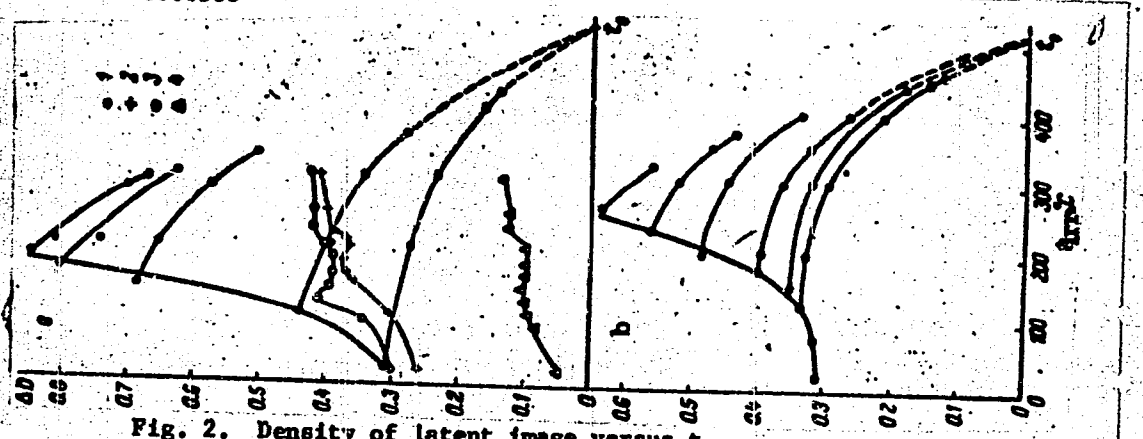

Fig. 2. Density of latent image versus t_{irr}.
a - curves 1, 2, 3, 4 for glasses 7, 1, 2, 3, respectively. Thin lines indicate the decay of the latent image down to t_d for glass 7 (some of the curves are extended by dashed lines to t_o); b - the same for glass 5. Thickness: 0.4 mm.

Card 4/5

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L 11848-66
ACC NR: AT6000508

becomes supersaturated and condenses in the form of colloidal particles. In Au containing glasses the t_d versus t_{irr} dependence is then much less pronounced because of a much smaller mobility of gold atoms. Orig. art. has: 3 formulas, 3 figures, and 1 table.

SUB CODE: 11, 20 / SUBM DATE: 22May65 / ORIG REF: 004

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Card 5/5

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

L 11849-66 EWT(m)/EWP(e)/EWP(b) WH/GS

ACC NR: AT6000509 SOURCE CODE: UR/0000/65/000/000/0380/0382

AUTHOR: Chistoserdov, V. G.; Kozlova, M. A.

ORG: None

TITLE: Some unique features of glass crystallization at temperatures near t_g

SOURCE: Vsesoyuznoye soveshchaniye po stekloobraznomu sostoyaniyu. 4th, Leningrad, 1964. Stekloobraznoye sostoyaniye (Vitreous state); trudy soveshchaniya, Leningrad, Izd-vo Nauka, 1965, 380-382

TOPIC TAGS: catalyzed crystallization, silicate glass, glass property, electron microscopy, crystallization

ABSTRACT: By means of electron microscopy the authors investigated the glass crystallization process from a temperature of about t_g and higher on samples the composition of which is near the triple eutectic point in the cordierite field of the SiO_2-Al_2O_3-MgO system with some admixtures of TiO_2 (transparent, weakly yellow, $t_g = 720 \pm 10C$). An analysis based on the data from the thermal processing of the initial glass, the differential thermal analysis curves, and the electron microscope showed that with an increase in temperature there is no further growth of the primary formations appearing at temperatures 60—80C above t_g, but they become rather reoriented and joined into aggregates. The orientation angles of

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adjacent aggregates may be entirely different; this can be explained by the polarity of the primary formations. The production of the primary formations is greatly induced by the presence of Ti compounds exhibiting large polarization moments. In the absence of such compounds the crystallization begins on the surface and is rigorously oriented towards it. Orig. art. has: 2 figures.

SUB CODE: 11, 20 / SUBM DATE: 22May65

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Card 2/2

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

CHISTOSERDOV, V.G., kand. tekhn. nauk

First symposium on quartz glass. Stek. ker. 22 no.10:47-48 O '65. (MIRA 18:12)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

CHISTOSERDOV, V. V.

A Study of the Elements of Wave Formation. Notes on Hydrography, No. 1, 1947 (52-62).

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

REGEL'MAN, Kh.Z., kand. tekhn. nauk, dotsent; CHISTOSERDOV, V.V., dotsent, kand. tekhn. nauk

Book review. Tekst. prom. 25 no.7:76-79 Jl '65. (MIRA 18:8)

1. Leningradskiy institut tekstil'noy i legkoy promyshlennosti imeni Kirova.

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L 33523-65 EWI(m)/EWP(e)/EWA(c)/T/EWP(t)/EWP(b) IJP(c) MJW/JD
ACCESSION NR: AR5005704 S/0276/64/000/010/B060/B060

SOURCE: Ref. zh. Tekhnol. mashinostr. Sv. t., Abs. 10B385

AUTHOR: Krylin, A.V.; Chistoserdova, G.A.

TITLE: A study of optimal boration conditions and the properties of the borated layer in various steels

CITED SOURCE: Tr. Leningr. in-ta vodn. transp., vyp. 58, 1964, 12-18

TOPIC TAGS: steel boration, optimal boration environment, electrolytic boration, borated layer property/ 20Kh steel, 27SG steel, 27SGT steel, 30KhGSA steel, steel No. 40, 40KhSA steel

TRANSLATION: Electrolytic boration in melted borax was studied on 20 Kh, 27 SG, 27SGT, 30KhGSA, No. 40 and 40KhSA steel. A boration temperature of 1000C, cathodic current density of 0.25-0.30 a/cm^2 and treatment duration of at least 3 hrs are recommended as optimal. Electrolytic boration of carbon steels and low-alloy structural steels produced a hardened layer, 0.30-0.40 mm deep, with Vickers hardness of 1200 and 1500 kg/mm^2 for No. 40 and 40KhSA respectively. The borated steel layer is deepest

Card 1/2

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ACCESSION NR: AR5005704

in No. 40 and hardest in 40KhSA, 30KhGSA and 2?SGT. The authors recommend hardening of borated parts and subsequent low-temperature tempering. Six illustrations.
T. Luchininova

SUB CODE: MM ENCL: 00

Card 2/2

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

L 02510-67 EWT(m)/EWP(w)/T/EWP(t)/ETI IJP(c) JD

ACC NR: AR6015963 SOURCE CODE: UR/0277/65/000/012/0008/0008

AUTHOR: Chistoserdova, G. A.

TITLE: Effect of sheet thickness on the cold shortness of 4S steel for ship hulls

SOURCE: Ref. zh. Mashinostroitel'nyye materialy, konstruktsii i raschet detaley mashin. Gidroprivod, Abs. 12.48.70

REF SOURCE: Tr. Leningr. in-ta vodn. transp. vyp. 73, 1964, 32-34

TOPIC TAGS: structural steel, steel microstructure, brittleness, impact strength, ductility, cold working, low temperature research

ABSTRACT: The author studies the effect of sheet thickness (16 and 30 mm) on the impact strength of 4S hull plate steel at 20 and -50°C. The upper limit of the transition interval for brittleness in 4S steel is -20°C for specimens cut from sheets of both thicknesses. The lower limit of cold shortness is somewhat higher for specimens cut from the thicker sheet (30 mm), lying between -30 and -40°C. The lower limit of cold shortness for 16 mm sheet is -40°C. Microstructural damage with an increase in sheet thickness is the principal reason for the reduced ductility of hot-rolled steel at below-zero temperatures. [Translation of abstract]

SUB CODE: 11, 20

Card 1/1 egk

UDC: 669.14.018.293;539.55

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

L 20909-65 EWT(m)/EWP(w)/EWA(d)/T/EWP(t)/EWP(b) AFWL/ASD(m)-3 MJW/JD

ACCESSION NR: AR4048243 S/0137/64/000/009/I053/I053

SOURCE: Ref. zh. Metallurgiya, Abs. 9I327

AUTHOR: Chistoserdova, G. A.

TITLE: Effect of low temperatures on cold brittleness of ship hull steel 40C

CITED SOURCE: Tr. Leningr. in-ta vodn. transp., vy*p. 58, 1964, 25-34

TOPIC TAGS: steel, metal brittleness, temperature, metalworking, metal mechanical property, marine engineering, steel 48

TRANSLATION: The effect of various hot working conditions on the mechanical properties, sensitivity to notching, and critical brittleness temperature T_{br} of steel 48, containing (in %) 0.21 C, 0.27 Si, 0.47 Mn, 0.023 S, 0.012 P, 0.16 Cr, 0.18Ni, 0.05 Mo, and 0.1 Cu, was investigated. Samples were made of sheet steel with a cross section thickness of 16 mm. Tests were carried out in a temperature interval from room temperature to -50°. The samples were subjected to normalizing from 880 to 1100° and quenching and tempering

Card 1/2

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

L 20809-65

ACCESSION NR: AR4048243

at 150 and 500°. In the hot rolled state, a_k at 20° is 13.8 kg-m/cm^2, T_{br} lies at -40°, and at this temperature a_k is 5.5 kg-m/cm^2. Normalizing at 8800 lowers T_{br} to -50°. Raising the normalizing temperature to 1100° increases T_{br} to -30°. Annealing at 900° increases a_k at 20°, but T_{br} does not change. σ_b and $\sigma_{0.2}$ are somewhat increased by a decrease in temperature, but δ and ψ are practically unchanged. Heat treatment (quenching and tempering at 500°) significantly increases the a_k of the steel, while T_{br} drops below -50°; in addition, heat treatment markedly reduces sensitivity to notching at room temperature and at -50°. To improve the ductility of steel 4S at negative temperatures, overheating before rolling and completion of rolling at high temperatures should be avoided, and accelerated cooling after rolling should be employed. Sheet steel 4S for hulls of icebreakers should be normalized from 880° with subsequent tempering at 500-550°, or should only be normalized.

SUB CODE: MM ENCL: 00

Cmd 2/2

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

[redacted], G. V., [redacted], M. K., FRIDE, K. A.,

"Influence of Endochrine Glands on Course of Infection and Immunity," Zhu. MEIB (3) 49-50, 1944.

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

CHISTOSERDOVA, G. V.

CHISTOSERDOVA, G. V. "Study of the Properties of Bacteriophages of Some Phytopathogenic Bacteria," Mikrobiologiia, vol. 7, no. 1, 1938, pp. 112-118. 448.3 M582.

SO: SIRA - SI 90 - 53, 15 Dec. 1953.

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

CHISTOSERDOVA, G. V.
"Sero-diagnostics of Some Fluorescent Phytopathogenic Bacteria," Mikrobiologiia, vol.7, no. 7. 193?, pp. 809-828. 44?.3 M582
IZRAILSKIY, V. P. and CHISTOSERDOVA, G. V.

SO: SIRA SI-19-53, 15 Dec. 1953

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

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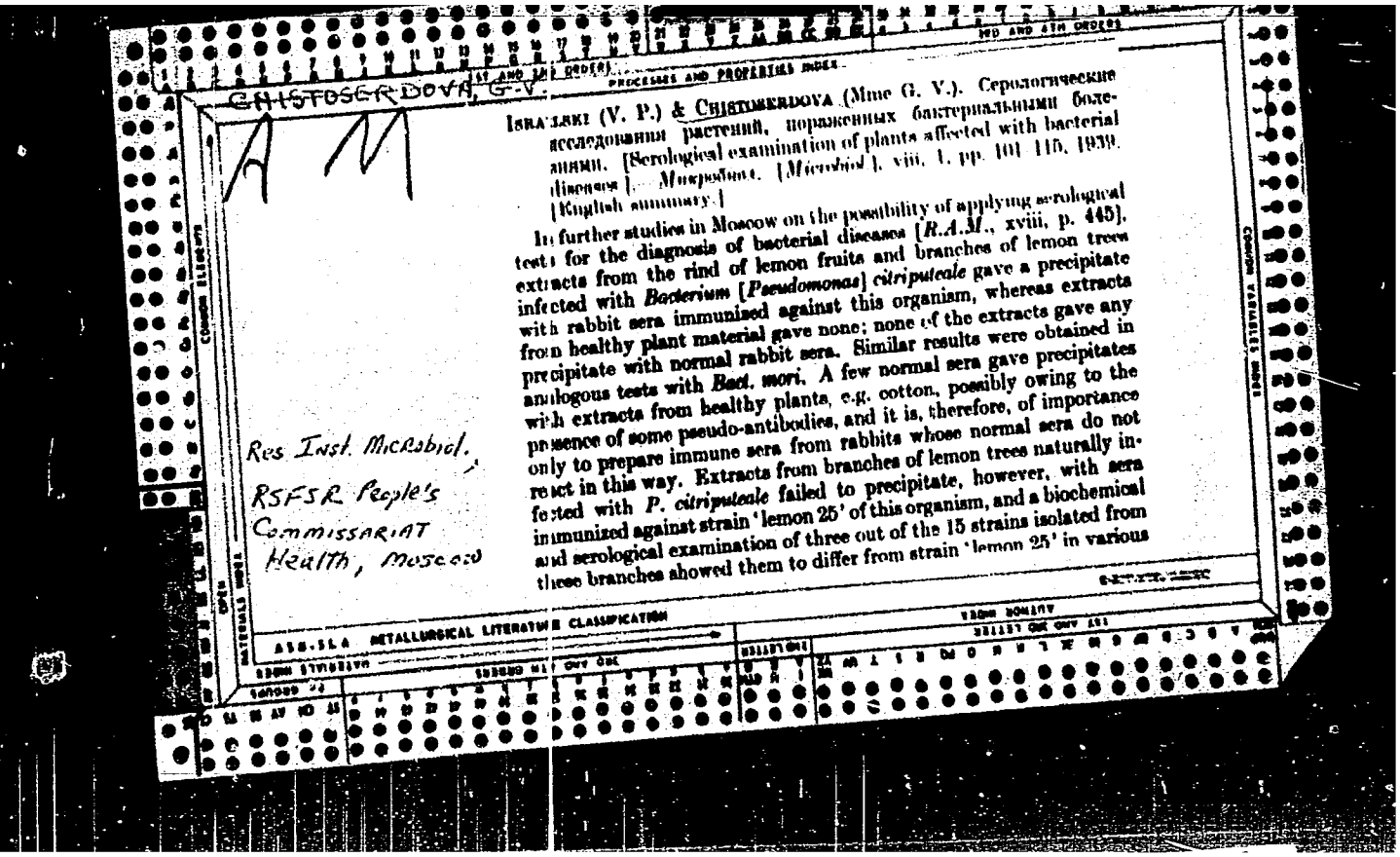

CHISTOSERDOVA, G.V.

A M

Res. Inst. Microbiol. RSFSR People's Commissariat Health, Moscow

ISRAILSKI (V. P.) & CHISTOSERDOVA (Mme G. V.). Серологическое исследование растений, пораженных бактериальными болезнями. [Serological examination of plants affected with bacterial diseases.] *Микробиол.* [*Microbiol.*], viii, 1, pp. 101–115, 1939. [English summary.]

In further studies in Moscow on the possibility of applying serological tests for the diagnosis of bacterial diseases [*R.A.M.*, xviii, p. 445], extracts from the rind of lemon fruits and branches of lemon trees infected with *Bacterium* [*Pseudomonas*] *citriputeale* gave a precipitate with rabbit sera immunized against this organism, whereas extracts from healthy plant material gave none; none of the extracts gave any precipitate with normal rabbit sera. Similar results were obtained in analogous tests with *Bact. mori*. A few normal sera gave precipitates with extracts from healthy plants, e.g. cotton, possibly owing to the presence of some pseudo-antibodies, and it is, therefore, of importance only to prepare immune sera from rabbits whose normal sera do not react in this way. Extracts from branches of lemon trees naturally infected with *P. citriputeale* failed to precipitate, however, with sera immunized against strain 'lemon 25' of this organism, and a biochemical and serological examination of three out of the 15 strains isolated from these branches showed them to differ from strain 'lemon 25' in various

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

CHISTOSERDOVA, G. V.

Exptl. branch Central Inst. Epidemiology and Microbiology NKZDRAVA, People's Commissariat, Public Health, (-1944-)

"The influence of the endocrine glands on the course of infectious process and immunity."

Zhur. Mikrobiol., Epidemiol., i Immunobiol., No. 3, 1944.

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

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CHISTOSERDOVA, G.V.

BEYLINSON, A.V.; BOBKOVA, M.P.; SHAKHANINA, K.L.; VITOKHINA, T.A.; BLOKHINA, T.P.; CHISTOSERDOVA, G.V.

Hematic proteases in hyperimmune antitoxic serums and methods for their detection [with English summary in insert]. Biokhimiia 21 no.6: 671-675 N-D '56. (MLRA 10:7)

1. Institut epidemiologii i mikrobiologii imeni N.F.Gamaleya Akademii meditsinskikh nauk SSSR, Moskva.

(PROTEASES, determination,
in immune sera (Rus))
(IMMUNE SERUMS,
proteases in, determ. (Rus))

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

BEYLINSON, A.V.; ORLOVA, N.N.; SHAKHANINA, K.L.; VITOKHINA, T.A.; CHISTOSERDOVA, G.V.; L'VOVA, A.I.

Purification and concentration of polyvalent sera against influenza by fractional salting out. Vop. virus. 5 no. 2:140-145 My-S '60.

1. Institut epidemiologii i mikrobiologii imeni N.F. Gamalei AMN SSSR i Institut virusologii imeni D.I. Ivanovskogo AMN SSSR, Moskva.

(SERUM) (INFLUENZA)

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

SOV/137-59-1-2102

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 1, p 276 (USSR)

AUTHORS: Ryazanov, I. P., Chistota, L. M.

TITLE: Chromatographic Determination of Vanadium in Steels (Khromatograficheskoye opredeleniye vanadiya v stalyakh)

PERIODICAL: Sb. nauchn. tr. Magnitogorskiy gornometallurg. in-t, 1958, Nr 16, pp 154-160

ABSTRACT: A description is offered of a method for separation of V from Mo, W, and Fe using Al_2O_3; the method is based on the fact that after addition of a solution of H_2O_2 and a saturated solution of K_2CO_3 to a solution containing V, Mo, W, and Fe, the compounds of Mo, W, and Fe are retained on Al_2O_3, whereas the compounds of V are not retained. 0.2-0.5 g of steel are dissolved in the smallest possible amount of aqua regia. The solution is diluted with 10 cc of hot water and heated for 3-5 min. 2-6 cc of $HClO_4$ are added and the whole is taken to fumes. Cr is then distilled off in the form of CrO_2Cl_2. The solution is transferred into a 100-cc flask. 8-10 drops of 3% H_2O_2 and an excess of concentrated solution of K_2CO_3 are added to an aliquot portion of the solution, and the mixture is

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Chromatographic Determination of Vanadium in Steels

heated to decompose the excess H_2O_2. After cooling the solution is passed through the column with the chromotographic Al_2O_3. V passes through the column, together with the wash water, is collected in a 100-cc flask where it is determined by the colorimetric method.

A. M.

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

CHISTOTA, V. D.

CHISTOTA, V. D. -- "The Effect of an Adsorption-Active Medium on the Force of Drawing Steel Wire." Inst of Physical Chemistry, Acad Sci USSR. Magnitogorsk Mining and Metallurgical Inst imeni G. I. Nosov. Moscow, 1955. (Dissertation for the Degree of Candidate of Chemical Sciences.)

SO: Knizhnaya Letopis', No 5, Moscow, Feb 1956

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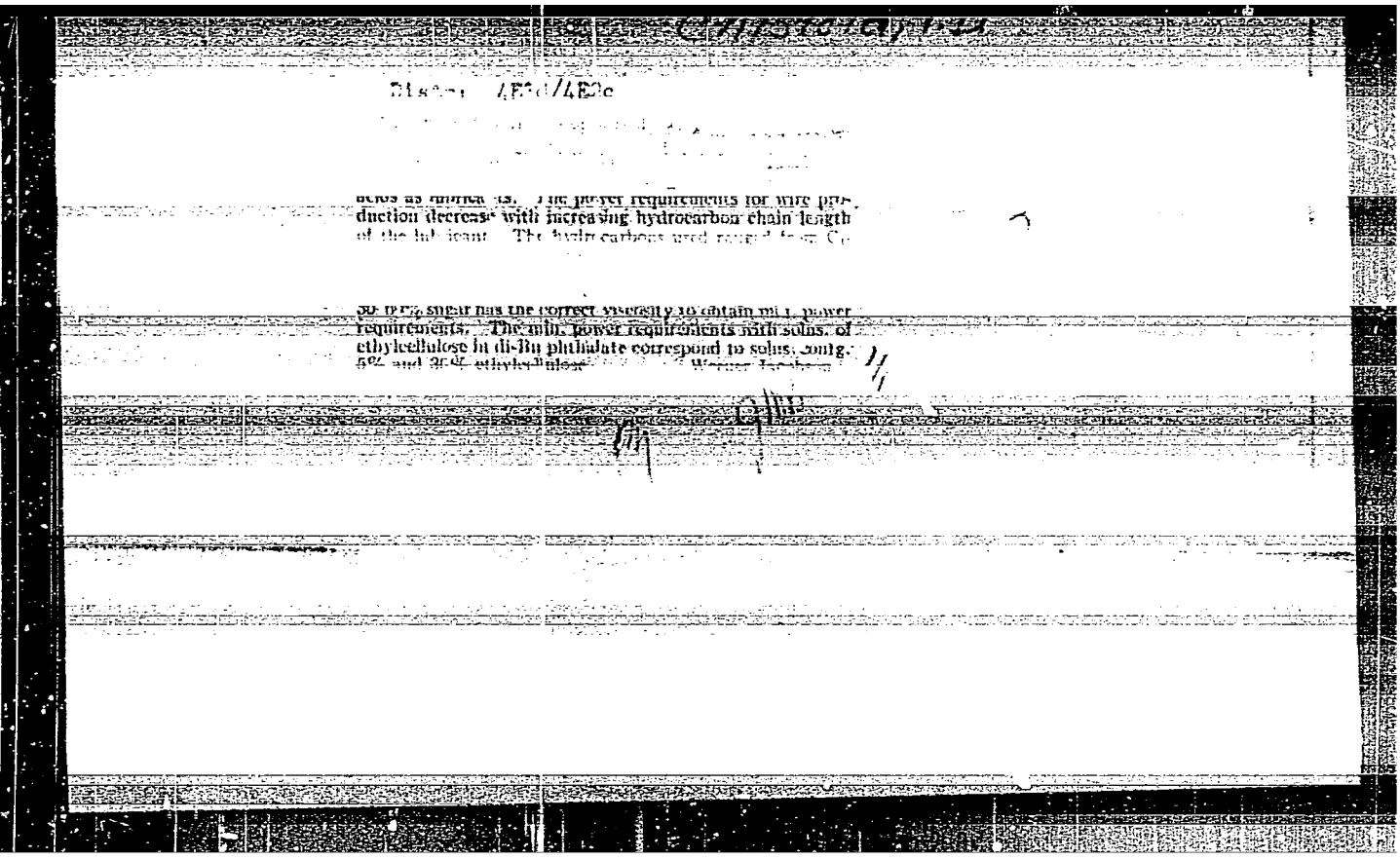

duction decreases with increasing hydrocarbon chain length

requirements. The milling power requirements with solns. of ethylcellulose in di-Bu phthalate correspond to solns. containing 5% and 3% ethylcellulose.

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Mechanism of Action of Coating in Drawing Process (cont.)

pressure of the tool, this facilitates deformation of the metal. 3. Separation of the metal surfaces of the work piece and the tool is performed by fillers in the coating, and this significantly reduces the forces of friction. It is suggested that coating and coolant fluids be classified on the basis of their adsorptive activity. On this basis, all the varieties of coating and coolant fluids are classified in 4 groups.

S.G.

1. Metals--Processing 2. Lubricants--Adsorptive properties 3. Coolants--Adsorptive properties 4. Lubricants--Performance

Card 2/2

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

SOV/137-59-1-2122

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 1, p 278 (USSR)

AUTHORS: Ryazanov, I. P., Chistota, V. D.

TITLE: Triethanolamine as a Reagent for Qualitative Analysis (Trietanolamin kak reaktiv dlya kachestvennogo analiza)

PERIODICAL: Sb. nauchn. tr. Magnitogorskiy gornometallurg. in-t, 1958, Nr 16, pp 146-153

ABSTRACT: A 20% triethanolamine solution (I) at pH 7.77 was used. Al^{3+}, Mn^{2+}, Zn^{2+}, Bi^{3+}, Cd^{2+}, Sn^{2+}, Sb^{3+}, Sb^{5+}, and Fe^{2+} with I form precipitates insoluble in an excess of reagent. Cr^{3+}, Co^{2+}, Ni^{2+}, Pb^{2+}, and Sn^{2+} form colored, soluble complex compounds. Fe^{3+}, Co^{2+}, Ni^{2+}, Hg_2^{2+}, and Hg^{2+} do not form any precipitate with the reagent. Qualitative reactions of cations with I in the presence of $K_2Cr_2O_7$, KI, $(NH_4)_2C_2O_4$, and NH_4CNS, as well as with sodium versenate, Na diethyldithiocarbamate, oxyquinoline, rubeanhydride and anthranyl acids are adduced. A procedure for separating the cations without hydrogen sulfide by using triethanolamine is given.

P. K.

Card 1/1

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

S/137/61/000/005/017/060
A006/A106

AUTHOR: Chistota, V.D.

TITLE: Evaluating the efficiency of greasing when drawing by the method of repeated broaching

PERIODICAL: Referativnyy zhurnal. Metallurgiya, no. 5, 1961, 24, abstract 5D229 ("Sb. nauchn. tr. Magnitogorskiy gornometallurg. in-t", 1960, no. 20, 155 - 161)

TEXT: Information is given on the results of investigating the dependence of the drawing force of a steel wire on the type of greasing, when the wire is repeatedly drawn through one draw plate. A 0.5% solution of soap was tested as a lubricant of the active medium, and vaselin oil as lubricant of the non-active medium. A sharper relative reduction of the drawing force during consecutive broachings was observed when using an active medium as compared to a non-active one.

V. P.

[Abstracter's note: Complete translation]

Card 1/1

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

GRAVE, N.A., doktor geogr.nauk; GAVRILOVA, M.K.; GRAVIS, G.F.; KATASONOV, Ye.M.; KLYUKIN, N.K.; KOREYSHA, M.M.; KORNILOV, B.A.; CHISTOTINOV, L.V.; TORKHANOVA, Z.A., red.

[Collection of articles] Sbornik statei. Moskva, Nauka, No.14. 1964. 140 p. (MIRA 17:12)

1. Akademiya nauk SSSR. Mezhduvedomstvennyy komitet po provedeniyu Mezhdunarodnogo geofizicheskogo goda. IX razdel programmy MGG. Glyatsiologiya.

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

CHR CHISTOTIPOV, L.V.

Teplo-i massoobmen v merzlykh tolshchakh zemnoy kory (Heat and Mass Transfer in the Frozen Strata of the Earth's Crust) Moscow, Izd-vo AN USSR, 1963 213p.
Research by the staff of the Heat-and Mass-Transfer Division of the Institute of Permafrost Study, Siberian Branch, AS USSR.

Balobayev, V.T. Calculation of Wasting of Glaciers and Naleds 117

Ivanov, N.S. The Thermal Regime of the Cryozone With Regard to its Thermal Anisotropy 124

Chistotipov, L.V. The Hydrothermal Regime of a Moist Sample of a Dispersive Material in Contact With a Non-hygroscopic Standard Body 131

Mostakhov, S.Ye. Calculated Climatic Characteristics for Designing Buildings and Structures in the Territory of the Yakutsk ASSR 137

Ivanov, N.S. Determination of the Thermal Conductivity Coefficient for Cryogenic Media Using the Theory of the Generalized Regular Thermal Regime 148

Card 4/7

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

CHISTOV, A.

Scientific technological societies in China. NTO 5 no.6:57-58 Je '63. (MIRA 16:9)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

CHISTOV, A.

Chairman of the district committee of the Volunteer Society for Assistance to the Air Force. Voen. znan. 25 no.5:21 My '49. (MIRA 12:12)

(Aeronautic) (Military education and training)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

L 36219-66

ACC NR: AP5023380 (A) SOURCE CODE: UR/0317/65/000/004/0042/0047

15

B

AUTHOR: Chistov, A. (Engineer, Colonel)

ORG: none

TITLE: Technical organization of vehicle repair

SOURCE: Tekhnika i vooruzheniye, no. 4, 1965, 42-47

TOPIC TAGS: military tank, military training, military personnel, SERVICING TECHNIQUE

ABSTRACT: The duties of a deputy tank battalion commander for technical affairs are described. This officer is charged with maintaining a register of all vehicles and equipment and their condition, the training of repair and maintenance personnel, and the training of tank crews to cross water obstacles, etc. In a field operation, he sets up and relocates battalion vehicle repair stations. On the basis of the terrain, the type of maneuver and the state of repair of the tank, he estimates the probable expenditure of machines and parts. He also reports to the battalion commander on damage and contamination arising from an enemy attack with nuclear or chemical weapons.

SUB CODE: 15,19/ SUBM DATE: none

Card 1/1

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

CHISTOV, A.

AID P - 5290

Subject : USSR/Aeronautics - Civil Aviation

Card 1/1 Pub. 58 - 8/11

Author : Chistov, A.

Title : At the spurs of the Shihote-Alin' mountain range

Periodical : Kryl. rod., 9, 17-18, S 1956

Abstract : The author outlines the role of the civil aviation in the regions of Eastern Siberia which are difficult of access, and relates his own trip to the isolated in the taiga town of Sidatun (Primorskiy kray, RSFSR).

Institution : None

Submitted : No date

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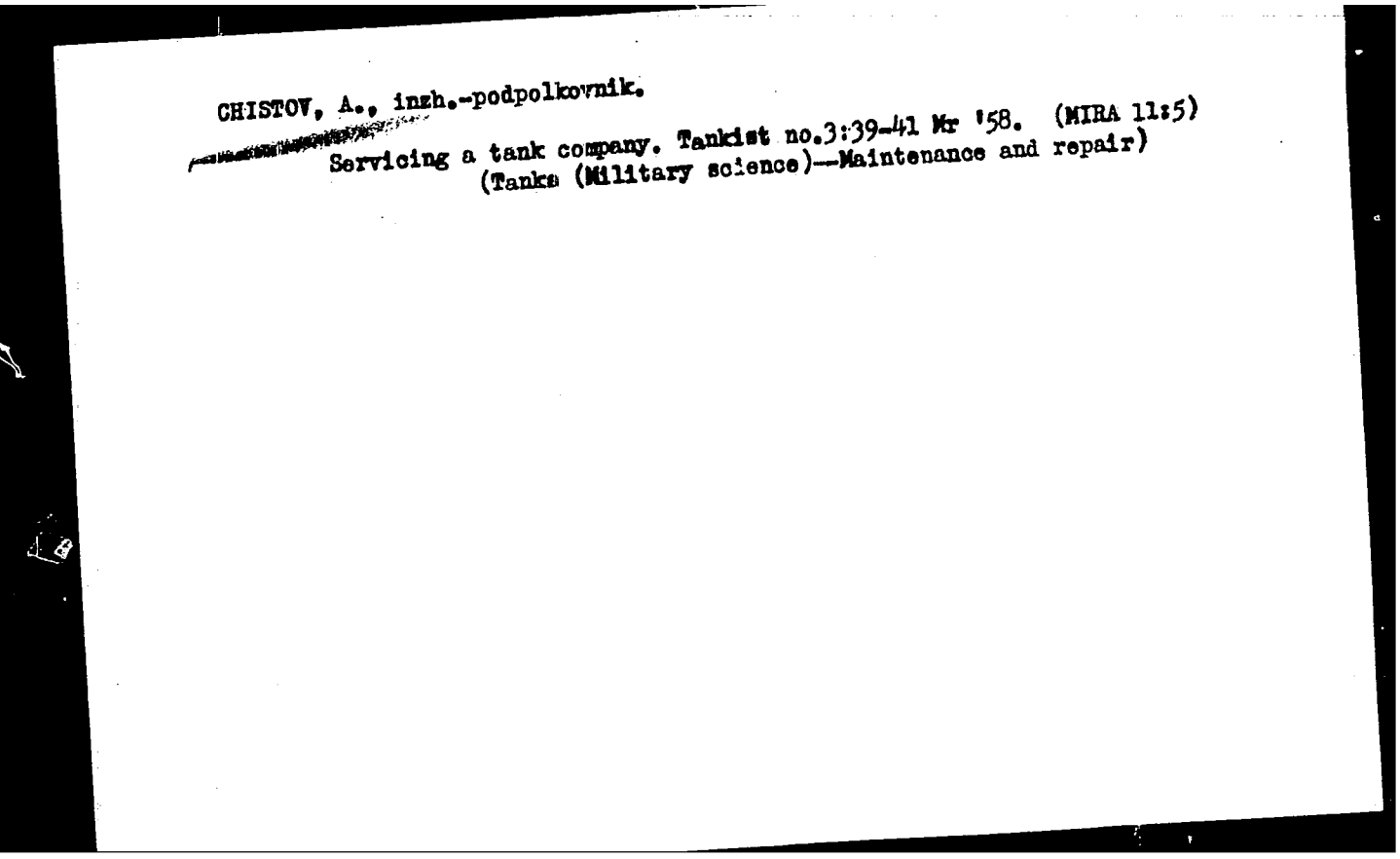

CHISTOV, A., inzh.-podpolkovnik.

Servicing a tank company. Tankist no.3:39-41 Mr '58. (MIRA 11:5)
(Tanks (Military science)—Maintenance and repair)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

CHISTOV, A. (g.Korkino)

Here people like sports. Sov.shakht. 11 no.1:40 Ja '62. (MIRA 14:12)

(Coal miners) (Physical education and training)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

CHISTOV, A.

Union of engineers and technicians in Yugoslavia. NTO 6 no.1:58-59 Ja '64. (MIRA 17:2)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

L 00671-67

ACC NR: AP5023380 (A) SOURCE CODE: UR/0317/65/000/004/0042/0047

AUTHOR: Chistov, A. (Engineer, Colonel)

ORG: none

TITLE: Technical organization of vehicle repair

SOURCE: Tekhnika i vooruzheniye, no. 4, 1965, 42-47

TOPIC TAGS: military tank, military training, military personnel, SERVICING TECHNIQUE

ABSTRACT: The duties of a deputy tank battalion commander for technical affairs are described. This officer is charged with maintaining a register of all vehicles and equipment and their condition, the training of repair and maintenance personnel, and the training of tank crews to cross water obstacles, etc. In a field operation, he sets up and relocates battalion vehicle repair stations. On the basis of the terrain, the type of maneuver and the state of repair of the tank, he estimates the probable expenditure of machines and parts. He also reports to the battalion commander on damage and contamination arising from an enemy attack with nuclear or chemical weapons.

SUB CODE: 15,19/ SUBM DATE: none

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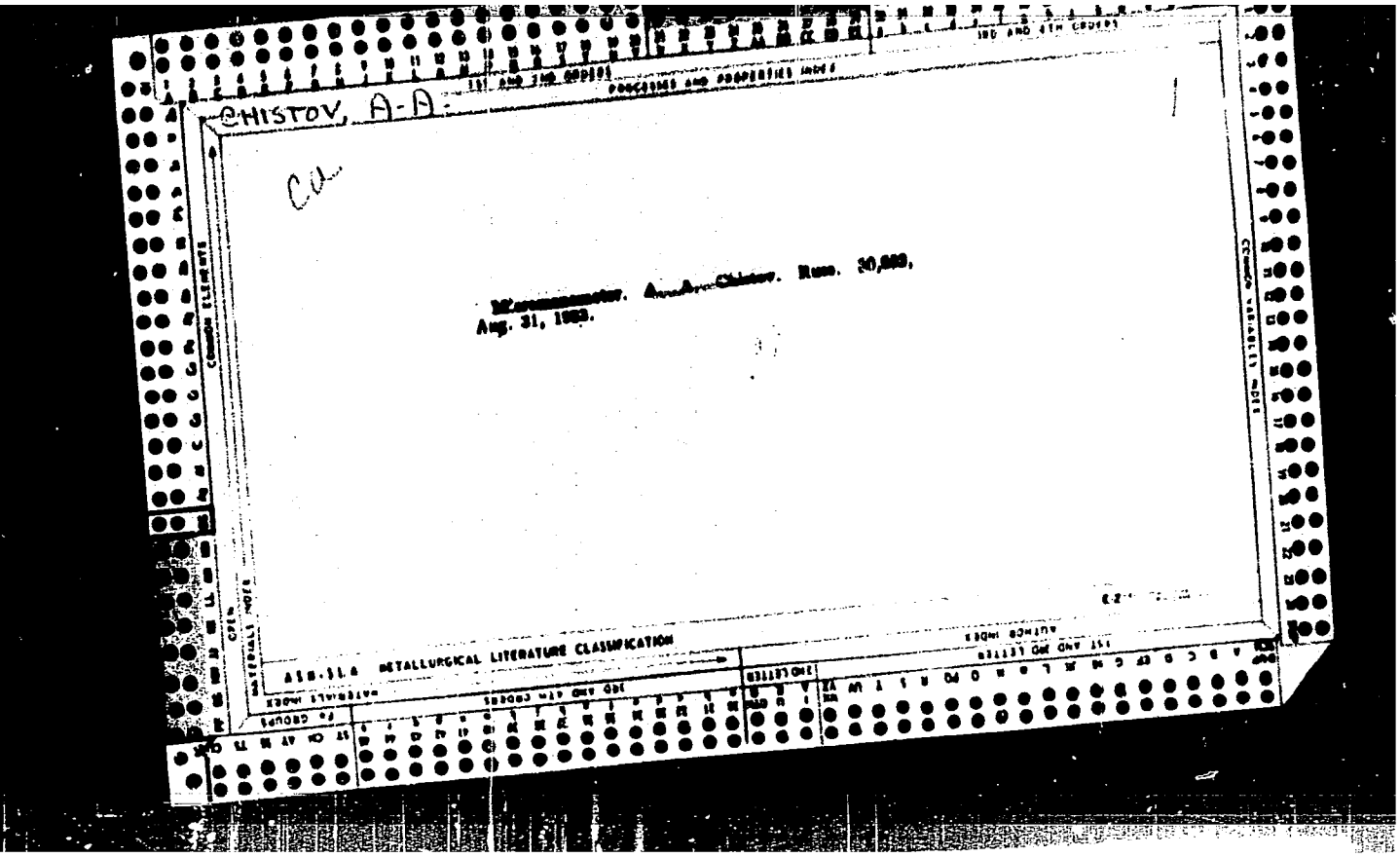

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

CHISTOV, Aleksandr Aleksandrovich; VASIL'YEV, V.N., red.; SKONECHNAYA, A.D., red.; KLYUCHEVA, T.D., tekhn.red.

[Work and live the communist way] Rabotat' i zhit' po kommunisticheski. Moskva, Izd-vo "Sovetskaia Rossiia," 1960. 28 p. (Dlia slushatelei sel'skikh nachal'nykh ekonomicheskikh shkol i kruzhkov. Tema 7). (MIRA 14:2)
(Agricultural laborers)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

CHISTOV, A.A.; KANTER, A.I., red.; SAVCHENKO, Ye.V., tekhn. red.

["The relay race" of communism] Estafeta kommunizma. Moskva, Izd-vo "Znanie," 1961. 38 p. (Narodnyi universitet kul'tury: Tekhniko-ekonomicheskii fakul'tet, no.1) (MIRA 14:9)
(Efficiency, Industrial)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

BELONOSOV, N.I., dotsent; CHISTOV, A.A.

Biomycin and vitamin concentrate product of the Petrovskiy Alcohol Plant. Veterinariia 38 no.4:39-42 Ap '61 (MIRA 18:1)

1. Ivanovskiy sel'skokhozyaystvennyy institut (for Belonosov).
2. Glavnyy inzh. Petrovskogo spirtovogo zavoda (for Chistov).

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

CHISTOV, Aleksandr Aleksandrovich; SKONECHNAYA, A.D., red.; AVDEIEVA, V.A., tekhn. red.

[Town and country] Derevnia i gorod. Moskva, Izd-vo "Sovetskaia Rossiia," 1961. 73 p. (MIRA 15:2)
(Russia—Economic conditions)
(Russia—Social conditions)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

CHISTOV, Aleksandr Aleksandrovich; KANTER, A.I., red.; ATROSHCHENKO, L.Ye., tekhn. red.

[This is in the spirit of communism] Eto kommunistichno. Moskva, Izd-vo "Znanie," 1962. 47 p. (Narodnyi universitet kul'tury. Tekhniko-ekonomicheskii fakul'tet, no.2) (MIRA 15:5)

(Technological innovations) (Industrial management)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

CHISTOV, A. B., ENGINEER

"Gor'kiy Automobile Plant imeni Molotov", Stanki I Instrument, 14 No. 4-5, 1943.

*Excerpt form his report:

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

CHISTOV, A.D.; BAZARNOVA, G.V.; BEK, N.D.: BELIKOVA, V.I.; BLINOVA, M.Ya.; KABANOVA, P.G.; MAKAROVA, M.D.; PRIPISTSOVA, K.D.; SIMONOVA, L.F.; TOLKACHEVA, Ye.M.; TYUNYAYEVA, V.V.; ZINCHENKO, V.S., red.izd-va; PAVLOVSKIY, A.A., tekhn.red.

[Foreign trade of the U.S.S.R. for 1918-1940; statistical survey] Vneshniaia torgovlia SSSR za 1918-1940 gg.; statisticheskii obzor. Moskva, Vneshtorgizdat, 1960. 1134 p. (MIRA 13:10)

1. Russia (1923- U.S.S.R.) Glavnoye tamozhennoye upravleniye. 2. Otdel statistiki Glavnogo tamozhennogo upravleniya Ministerstva vneshney torgovli SSSR (for all, except Zinchenko, Pavlovskiy). (Commercial statistics)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

CHISTOV, A.P., mashinist-instruktor

Advice concerning the servicing of the ignitrons of electric locomotives. Elek. i tepl. tiaga 6 no.11:34-35 N '62. (MIRA 16:1)

1. Depo Zima Vostochno-Sibirskoy dorogi.
(Electric locomotives)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

CHISTOV, B.G.

Device for opening containers of irradiated targets. Atom. energ. 17 no.5:419-420 N '64. (MIRA 17:12)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910001-9

CHISTOV, D.I.

The theory of plane beams with large curvature and asymmetrical cross section. Trudy NPI 117:45-50 '61. (MIRA 15:7)
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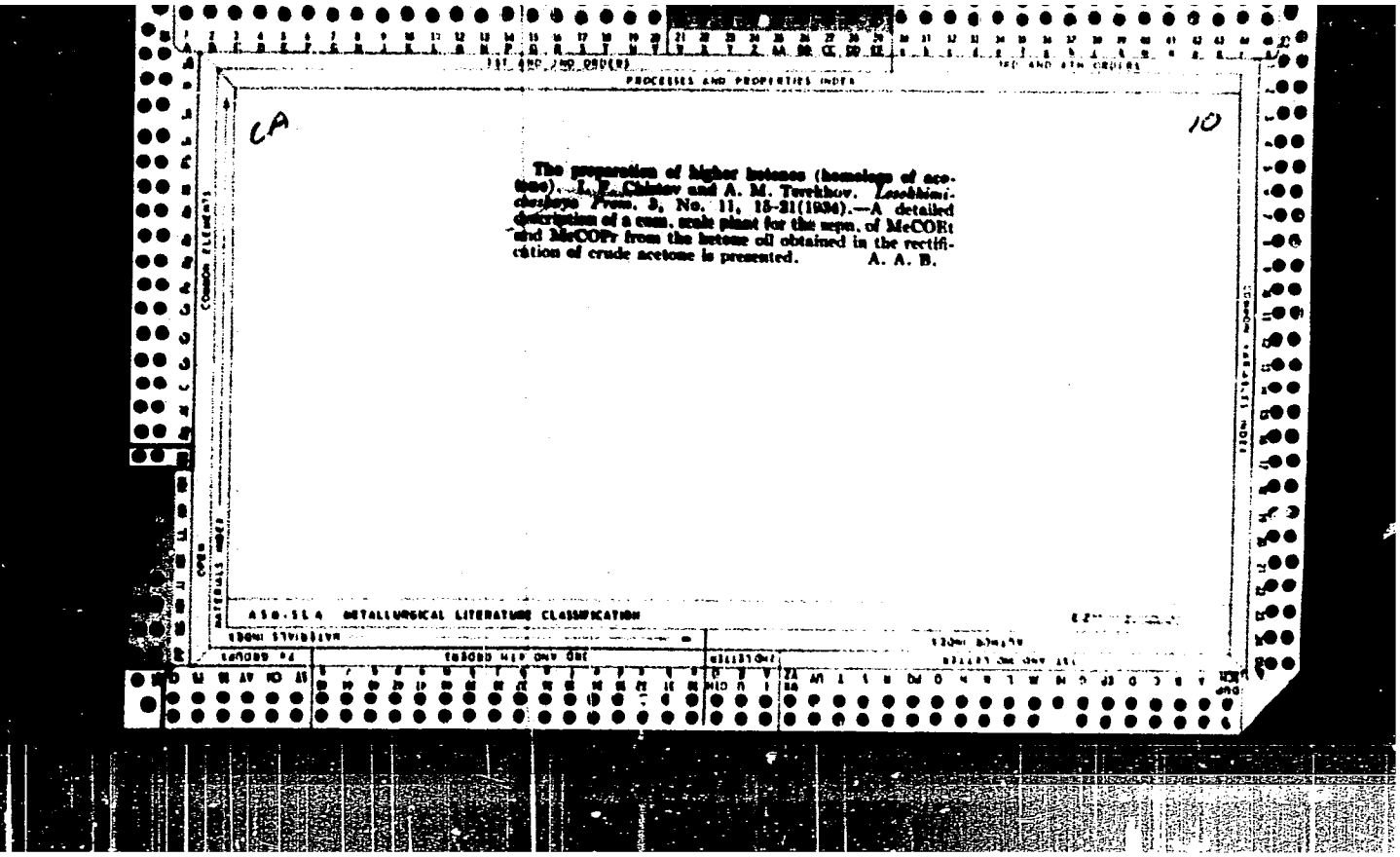

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